



Council Communication

Office of the City Manager

Date

December 4, 2006

Agenda Item No. 8
Roll Call No. 06-
Communication No. 06-752
Submitted by: **Jeb E. Brewer, P.E.**
City Engineer and William G. Stowe
Assistant City Manager/Public
Works/Engineering

AGENDA HEADING:

Approving and authorizing the execution of Iowa Department of Transportation (Iowa DOT) Change Order No. 7 to Keo Way Phase 2 Storm Sewer Outlet not to exceed City cost of \$138,831.06.

SYNOPSIS:

Recommend approval of Change Order No. 7 as prepared by the Iowa DOT not to exceed \$241,026.16, with the City share being \$138,831.06, for the cost to continue work on the 10-foot x 5-foot reinforced concrete box (RCB) storm sewer to the end of the project, and complete the connection to the existing 10-foot x 5-foot RCB storm sewer, along with suitable backfill and pavement during winter construction.

FISCAL IMPACT:

Amount: \$138,831.06

Funding Source: 2006-2007 CIP, Page Street-23, I-235 Storm and Sanitary Sewer Improvements, STR197, Storm Sewer Utility Funds

Amount: \$102,195.10

Funding Source: Iowa Department of Transportation State Funds

ADDITIONAL INFORMATION:

On May 22, 2006, under Roll Call No. 06-977, the City Council approved a preconstruction agreement with Iowa DOT for Keo Way (Birds Run) Phase 2 Storm Sewer related to I-235, where the City will reimburse Iowa DOT an estimated 57% of the storm sewer cost, 100% for any enhanced storm capacity, and 100% of sanitary sewer cost. The repayment will begin in FY 2007-08. As part of this agreement, change orders exceeding \$25,000 in additional City contribution must be approved by the Des Moines City Council.

On August 7, 2006, under Roll Call No. 06-1555, the City Council approved Change Order No. 2 in the amount not to exceed \$374,149.58, City share being \$124,716.53, for boring 40 lineal feet of 54-inch sanitary sewer with casing and 84 lineal feet of 10 ft. x 5 ft. reinforced concrete box storm (RCB) sewer underneath the Qwest communication utilities. This change order work was beneficial to Qwest as it eliminated their cost to relocate the duct, beneficial to the Iowa DOT in order to keep traffic phasing on schedule, and beneficial to the City in order to minimize downtown access disruptions. All three parties agreed to share the \$374,149.58 cost equally.

Change Order No. 2 work required jacking the 10-foot x 5-foot RCB storm sewer and 54" sanitary sewer pipe under the Qwest duct banks that cross Keo Way, and required 10 weeks to complete. This was longer than originally estimated due to the poor condition of the duct bank. This delay forces work on the remainder of the project to be extended to the spring of 2007. However, the 10-foot x 5-foot RCB storm sewer must be connected to the existing 10-foot x 5-foot RCB storm sewer outlet at the north end of Keo Way before spring. Without the 10-foot x 5-foot RCB storm sewer being connected to the outlet, significant flooding could occur along Keo Way during spring rainfall events.

In order to connect the 10-foot x 5-foot RCB storm sewer to the outlet, the project will need to continue through the winter months. As the hot mix asphalt (HMA) plants will close for the season, the pavement replacement will be 10" Portland cement concrete (PCC) placed in winter conditions with 2" HMA overlay in the spring. With winter conditions, there will be additional cost of heated water for the PCC pavement, subgrade, and pavement protection. Also, there will be unsuitable material for backfill due to winter conditions. The unsuitable material will be hauled for disposal and replaced with recycled HMA. The total change order cost is \$241,026.16, with the City's share being \$138,831.06.

Discussions will be held with Qwest to determine their participation with this change order, similar to Change Order No. 2 where Qwest contributed 1/3 of the cost. Any funds contributed by Qwest will be applied to the City and IOWA DOT cost share percentages proportionately.

PREVIOUS COUNCIL ACTION(S):

Date: August 7, 2006

Roll Call Number: 06-1555

Action: [Approving](#) and authorizing execution of Iowa Department of Transportation Change Order No. 2 to Keo Way Phase 2 Storm Sewer Outlet, not to exceed \$124,716.53. ([Council Communication No. 06-501](#)) Moved by Vlassis to adopt. Motion Carried 6-1.

Date: May 22, 2006

Roll Call Number: 06-977

Action: [Authorizing](#) execution of Iowa Department of Transportation Preconstruction Agreement for Keo Way (Birds Run) Phase 2 Storm Sewer Outlet. ([Council Communication No. 06-294](#)) Moved by Vlassis to adopt. Motion Carried 7-0

Date: August 31, 2000

Roll Call Number: 00-3634

Action: Approving Iowa Department of Transportation Predesign Agreement for Interstate 235, from the west City limits to the north City limits. ([Council Communication No. 00-411](#)). Moved by McPherson to adopt. Motion Carried 4-2-1. Nays: Brooks and Vlassis. Absent: Flagg

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS: NONE